

CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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Capital Repair Stations

1. The following is a list of the major stations in Poland. These repair centers, called ZNS (Zaklady Naprawcze Samochodowe - Vehicle Repair Shop), were under the Ministry of Road and Air Transport and were responsible for the complete overhauling of the vehicle types which are listed following the station location:

Elblag - Dodge, Willys (jeep) (U. S. makes)

Jelcz - Star 20, Warsaw (Polish makes)

Krakow - Fiat (Italian make)

Opole - Old German makes

Poznan - Ford, Fordson (English Ford trucks)

Solec Kujawski - GMC and Studebaker (U. S. makes)

Warsaw - Chausson (French), Leyland (English)

Skoda (Czech)

These centers have, as their primary function, the repair and rebuilding of vehicles. With some of the stations are associated small factories which manufacture new subassemblies for replacement

The repair stations listed above were responsible for the overhaul of about 85% of all state-timed vehicles, the other 15% being maintained by military depots.

50X1 no military equipment was cared for at the abovelisted repair stations and there were, furthermore, no military personnel attached to them.

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as a percentage of the total number of hours scheduled for repairs on vehicles under the control of the entire Ministry of Road and Air Transport) the Jelcz center was responsible for 37% of all such work in Poland.

Availability of Parts and Supplies

- 4. At the Jelcz center there was always an adequate supply of lubricants. Parts, on the other hand, were always inshort supply and while some parts were stocked, others were so short that cannibalization of vehicles was resorted to as a matter of routine.
- 5. Differentials for the GMC and Studebaker trucks were very hard to get. These particular parts were obtained from Solec Kujawski.
- 6. Repair stations generally got new replacement parts, under the Annual State Plan, from the countries which had originally manufactured the vehicles. Thus, parts for the Skoda trucks were obtained from Czechoslovakia; for the older German vehicles, from East Germany. In the smaller proportion of cases new replacement parts were manufactured in Poland.

 the plan for the import of parts from Germany and Czechoslovakia was always fulfilled, whereas the plar for the import of parts for vehicles manufactured in the USSR was never fulfilled. (Enclosure 1 lists the cost of subassemblies for the Star 20 truck as of 1 June 1954.)

Norms for Vehicles and Supplies

- 7. the following capital repair norms which were operable at Jelcz during 1953:
 - a. The depot norm to completely strip a Star 20 truck, rebore and refit the engine and, in general, make a complete overhaul of the vehicle was 580 man-hours. One hundred and eighty Star 20's were thus overhauled in a month.
 - b. In addition the depot was responsible for the rebuilding of 60 Star 20 engines per month, each engine rebuilding having a 120 man-hour norm.

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- c. The depot was further responsible for the overhaul of 10 Warsaw cars per month, and the norm for each overhaul was 600 man-hours.
- d. There was also an allowance for general repair.
- 8. The total planned man-hours for work done by all of the ZNS centers listed in paragraph one was 320,000 hours per average month in 1953, of which Jelcz had a quota of about 133,000. The plan for the capital repair of vehicles at Jelcz was always fulfilled.
- 9. The following norms apply for the number of kilometers which a vehicle was to run between capital repair operations:

 Star 20
 45,000 km. (engine)

 80,000 km. (entire vehicle)

 Warsaw
 85,000 km.

 Chausson
 85,000 km.

 Leyland
 140,000 km.

 ZIS
 85,000 or 90,000 km.

 Ford
 30,000 km.

 Others
 50,000 km.

For a new vehicle, these norms were increased 20% until it had had one capital repair. Thus, a new Star 20 would have to go about 95,000 km. before it received its first capital repair, after which the 30.000 km. norm mentioned above would be applicable.

the norm for the Ford was so much lower than for the other vehicles and _______it was due to the fact that the engine operated at a much higher number of revolutions per minute. The Poles had consistent difficulty with the V-type of engine).

10. The average figure for the operation of a truck in Poland in 1953 was 2,500 km. per month. Buses were required to operate 5,000 - 6,000 km. per month.

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- 11. The total number of kilometers which were to be driven by all vehicles under the jurisdiction of the national PKS was set on the basis of the total number of vehicles under each regional PKS center. If a regional PKS had 300 trucks, the norm would be about 750,000 km. per month. If 50 of these trucks were undergoing repair, the remaining 250 would have to drive this same number of kilometers, and thus would have an individual norm of 3,000 km. for that month.
- 12. All trucks were required to carry a trailer 35% of the time, and the ton-kilometer norm would never be fulfilled without this use of trailers.
 - 13. Trucks were required to be in operation 67% of the time and buses were required to operate 76% of the time. These were critical figures, which everyone watched, as were the ton-kilometer (or passenger_kilometer) figures.
 - 14. The slightest underfulfillment of the plan would cause the driver of a vehicle to lose his bonus, even if it lacked only one-tenth of one per cent. If, on the other hand, the norm for the entire operation was fulfilled 100%, a 35% bonus was paid, this bonus being split among the sections according to individual rank. If the operation reached 115% of plan fulfillment (in 1953) the bonus amounted to 100% of the base total wage.
 - 15. During the year 1952, the expected number of accidents involving a state-owned vehicle was, for Poland, 300,000 accidents of all types. The Olsztyn section had an accident allowance of 280 individual accidents, and this was just about the number of accidents which actually occurred. Of these, about 15 resulted in deaths. Statistics for 1951, 1952, and 1953 were about the same. The person responsible for an accident paid for the damage. In the case of a truck driver

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attached to the PKS, he was compelled to pay damages when he was established as the responsible party in an accident.

- The normal stock of parts at the repair stations was a $1\frac{1}{2}$ 3 month supply. For those parts which were particularly difficult to get, the stock was inclined toward the lower figure.
- The parts stock norm was in monetary terms and the total could in no instance be exceeded by the depot. Thus, if a depot's stock allowance was 2,000,000 zloty and one part more was needed, it could not be obtained until something had been taken out of the inventory.
- For those tires produced in Poland (the "Stomil" tire is the only Polish tire brand; it is produced in all common sizes at a factory which is located near Poznan) the truck tire norm was 25,000 m. For truck tires from outside of Poland the tire norm was 35,000 m.
- 19. Seventy per cent of all tires used in Poland was within two sizes, the 7.50 x 20 and the 8.25 x 20. Of this 70%, about half was of one size and half the other with 8.25 predominating slightly. Other sizes in rather common use were:

For the Chausson 1100 x 20 Skoda Buses 1200 x 22 Some U. S. makes 900 x 20

Two types of fuel were available in Poland, but not in all areas. These two types were a leaded gasoline, and a regular gasoline. The 20. regular type predominated.

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the morm for vehicle operations did not differentiate between the two. The following norms applied in any case:

> Star 20 27 lit./100 km. 13 lit./100 km. 27 lit./100 km. 32 lit./100 km. 13.5 lit./100 km. 21 lit./100 km. Warsaw ZIS 150 Ford Willys Jeep Chausson (diesel) Leyland (diesel) 22 11t./100 km.

3 Enclosures

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1 - Price List of Subassemblies for the Star 20 Truck as of 1 June 1954

2 - Vehicles and Trailers Used in Poland as of 1 June 1954

3 - Other Vehicles in Common Use in Poland, 1953

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Enclosure 1

Price List of Subassemblies for the Star 20 Truck as of 1 June 1954

Cos	st of the Entire Vehicle, New	56,000 2	zloty
a .	Engine (new)	12,000	Ħ
	Rear axle assembly and drive shaft	27,000	Ħ
		8,000	Ħ
	Cab (chauffeur's booth)		Ħ
			Ħ
		6.000	ti
g.	Radiator	1,800	**
b.c.d.e.f	Rear axle assembly and drive shaft Frame Cab (chauffeur's booth) Freight body Transmission	27,000 8,000 7,000 5,500 6,000	†† †† ††

When bought for replacement, the individual subassembly prices prevailed and totaled more than a complete new truck.

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	Make	Model	Body	Producer	Year	Location of	Tonnage	Max.	Used	
- 1			Туре			Factory	(m. t.)			l 8
- 1					dûêêd		l	(km)	Mi 11 t	ary? Remarks
	Star	20	Truck	Poland	1948	Starachowice	3.5	85	 	
	Star	20	Adapted-		1954	see "Remarks	30 per		yes no	Character of the control of the cont
	04		bus			Joe Homer M	so ns	100	Щ	Chassis and engine built in Starachowice; body at Jelcz
	Star	20	Cable,	*				1		sody at serez
.			wire	-	1954	Jelcz	3	85	yes	Telegraph and telephone installation and
φ	Star	21	Truck	#	1055		_		ľ	repair
	Star	50	Bus		1955 1951	Starachowice Starachowice	3.5	75	-	Prototype produced
					TAOT			70	уев	Chassis and engine produced at Starachowice
- 1	Star	50 1	ire truck		1951	# Danok	persons	70	no	
- 1	Star	50	Street		1951	P	_	70	no	Same as bus Same as bus
- 1.	Star		cleaning	_	_		_	,,	110	Dame as Dus
- ['	ptar	51	Bus	u u	1952	*	36	75	уев	Chassis and engine produced at Starachowice
- 1:	Star	52	Bus				persons			I DOUY Droduced at Jelcz from 1054
- 1	1	٠- ا	Dus		1955		42	75	-	Self-contained (complete) body attachable
1	Star	60/61	Rear-exle				persons			to chassis
			trailer		1952	12	6	65		ł ·
	Star		Dump truc	T 11	1953			85	no no	
	Lublin Lublin		Truck		1950	Lublin	2.5		no ves	#Tit can gad # madualitan and Gart 1 gag
	Lublin	1	Bakery van	<u>.</u> 1	1954	Lublin & Jekz		70	no	"Licensed" production of Soviet GAZ 51 Two models completed used for bakery del.
1,	PUDITU	Ť	ee remark		1954	" .		70	no	Two models completed-used for meat
1	Lublin	1	Ambulan ce		3054 I	_ [1		deliveries
			Auto	,,	1954		6 litter	70	yes	Production planned for November 1954
	Syrena		Auto	11	1949 F	oran, Warsaw	pers.	110	yes	"Licensed" production of Soviet GAZ 20
	ionier		Auto	. 11	1954	eran, Warsaw Jelcz			no	Three different models completed
5	S.H.L.		Motor-	77			pers.		no	Three different models completed
1.		I.	cycle	i		paw	2 pers.	DĐ	yes	An improved type "125" to be produced
		350			1954	Warsaw	pers.	110		in 1955
1 *	3		Trailer	"			3.0		yes	Series of tests completed
			Spec.	_ 1	- 1			- I	, , ,	
		ľ	trailer	"	1954	Jelcz	2.5	- 1	no	A "lowered" trailer for special conditions"
<u>-</u>			<u> </u>		L					RDP82-00046R000400240003-8

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fake Dec	classified in	Part - Sanitize	d Copy App roducer Country	proved for lear Intro- duced	Release @ 50-Yr	Tonnage (m. t.)	Max. Speed	Used by	0046R000400240003-8 Enclosure 2 ary Remarks
	1	Passenger cargo	Poland	1954	Jelcz	2.5	-	no	A "lowered trailer for special conditions"
	2	trailer Work-shop trailer	•	1954	Jelcz	3.5	-	no	Same as above
		Living trailer		1954	Jelcz	4.5	-	no	Same as above
770		Bar-bus (Snack)		1954	Jelcz	3.5	-	no	Only model completed
ZIS ZIS ZIS AZ Skoda Skoda Skoda	150 585	Truck Truck Dump truck Truck Truck Bus Auto Auto	USSR # # Czech #	1931 1950 1951 1952 1948 1951 1947 1953	Unknown Unknown Unknown Unknown Unknown	3.0 3.5 3.5 10.0 7.5 48 pers 4 pers 5 pers	.110	yes no no yes yes yes	"Mack Diesel License" IVILINETIAL
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Enclosure 3

Other Vehicles in Common Use in Poland, 1953.

In addition to the vehicles shown in Enclosure 2, there are a few US, English, and German makes, so-called post-UNRRA and post-German, as well as a small number of new foreign vehicles:

Make	Model	Type Vehicle	Capacity	Producer Country
Tatra Volvo	111	Truck Bus	10 toms	Czechoslovak Swedish
Vagar Fiat	1100	Bus Auto		Hungarian Italian
Fiat Fiat	666 667	Truck Truck		Italian Italian
Leyland Leyland	LOPS OPS	*		English English
Chausson ZIM	151	Auto		French USSR
GAZ Chevrolet	51			USSR
(Fleetmaste Mercedes	r) 180	Auto		US
IFA	F8, F9	Auto Auto		German German Democratic Republic
IFA (Horch)		Truck		German Democratic Republic
Phanomen		Ambulance		German Democratic Republic
Citroem		Auto		French
Jawa Jawa	250 350	Motorcycle Motorcycle		Czechoslovak Czechoslovak